22.3: Data and Analysis

Data Collection (25 points)

Following your detailed protocol, perform all the experiments. Record your observations and take pictures of your key steps in the process. Your observations and images need to be incorporated in your data section and this section should be as detailed as possible as you will use this information to complete your discussion.

Part 1: Create slime using the best protocol you created from your last lab class.

Presented protocol: (include the protocol from your own group in as much detail as was presented)

Ingredients	Amount required	Texture	Picture
Glue			
Water			
Baking soda			
Shaving cream			
Contact solution			
Food color			

Performed protocol: (add any details that you added to the presented protocol when it wasn't explicit: ex. stirring, order of mixing, length of time between additions, mixes, etc.)

Ingredients	Amount added	Texture	Picture
Glue			
Water			
Baking soda			
Shaving cream			
Contact solution			
Food color			

Part 2: Create slime using the protocol from another group that was created in your last lab class.

Presented protocol: (include the protocol from the other group in as much detail as was presented)

Ingredients	Amount required	Texture	Picture
Glue			
Water			
Baking soda			

Ingredients	Amount required	Texture	Picture
Shaving cream			
Contact solution			
Food color			

Performed protocol attempt 1: (add any details that you added to the presented protocol when it wasn't explicit: ex. stirring, order of mixing, length of time between additions, mixes, etc.)

Ingredients	Amount added	Texture	Picture
Glue			
Water			
Baking soda			
Shaving cream			
Contact solution			
Food color			

Performed protocol attempt 2: (add any details that you added to the presented protocol when it wasn't explicit: ex. stirring, order of mixing, length of time between additions, mixes, etc.)

Ingredients	Amount added	Texture	Picture
Glue			
Water			
Baking soda			
Shaving cream			
Contact solution			
Food color			

Data Processing (25 points)

1. Identify the variable(s) that you changed in the slime-making experiment.

2. Describe the effect each change had on the created slime (texture, color, stretchability, stickiness, etc.) (You may use pictures as supporting evidence, just make sure that you add captions to each image.)

3. Compare your slime from last lab class to the slime you made today following your own protocol. (You may use pictures as supporting evidence, just make sure that you add captions to each image.)

4. Compare your slime that you created following another team's protocol to the slime the other team created following their own protocol. (You may use pictures as supporting evidence, just make sure that you add captions to each image.)

5. Compare your slime that you created following your own protocol to the slime another team created following your protocol.

6. Fill in the following table using the observations and data from your experiments.

Assumptions made	Testing the assumption	If assumptions are wrong ...

Assumptions made	Testing the assumption	If assumptions are wrong ...
The glue will behave the same way regardless of brand	Try different brands of glue.	
Contact solution brand has no impact		Different contact solutions show different results
The distilled water is pure	Evaporate it and check for residue	The density would change depending on the density of the contaminant
The container has no effect on the slime texture	Try different containers.	